

UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Entomology and Plant Quarantine
Washington, D. C.

B.E.P.Q. 496 Revised

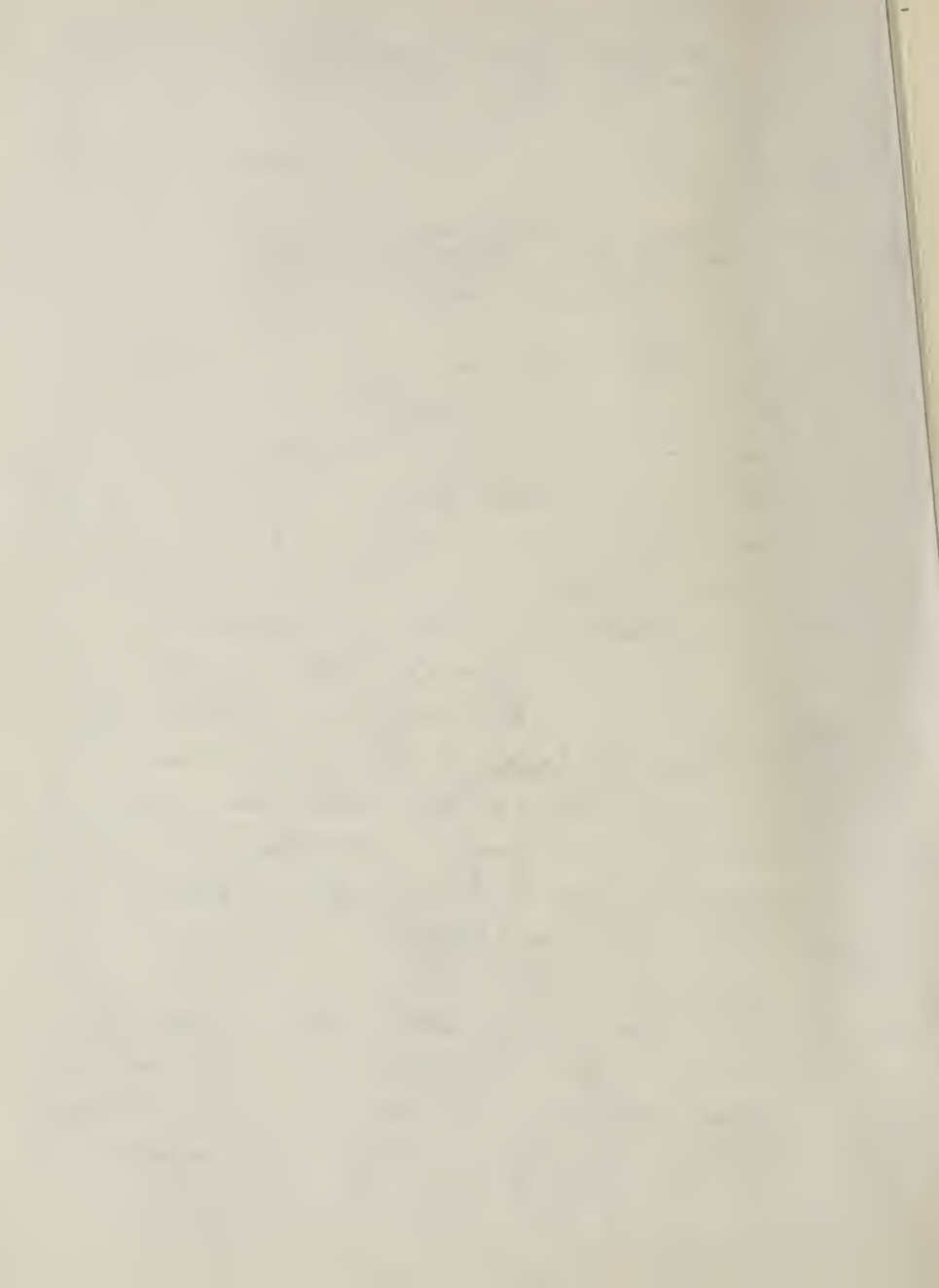
August 25, 1941

SUGGESTIONS FOR CONSTRUCTION OF PLUNGING AND GROWING BEDS
AND THEIR MAINTENANCE UNDER BEETLE-FREE CONDITIONS
IN ACCORDANCE WITH REGULATIONS OF THE WHITE-
FRINGED BEETLE QUARANTINE

Nursery stock with soil attached is eligible for certification for movement from areas under quarantine on account of the white-fringed beetle, provided it has been grown and maintained under beetle free conditions, or has been otherwise treated as specified in paragraph (b) of regulation 5 of Quarantine No. 72.

The Bureau of Entomology and Plant Quarantine and cooperating State officials are attempting to reduce beetle populations as drastically as possible in all infested areas by the application of intensive control measures in the vicinity of nurseries and other establishments dealing in regulated products. However, unless or until eradication is accomplished, such suppressive measures within themselves do not and cannot adequately protect nurseries or other establishments within a generally infested area from being exposed to infestation, and additional action on the part of the nurserymen is necessary.

In order to establish and maintain an infestation-free status in nurseries or units of nurseries located within a generally infested area, approved beetle proof barriers must be constructed by the nurserymen to protect plunging beds and growing areas, and adequate sanitary



and protective measures must be taken to maintain such barriers in an effective status. Barriers must be supplemented by precautionary measures against the artificial introduction of beetles into such protected areas and insecticidal treatments as specified by authorized inspectors should be applied

B. E. P. Q. 496, issued April 28, 1939, provided information on the construction of barriers approved at that time. Subsequent research indicates that barriers of a less expensive construction will furnish adequate protection. The following types of units and barriers are therefore suggested as a means of providing protection against natural infestation by the white fringed beetle,

Raised Plunging or Growing Beds

Beds or benches, indoors or outside, must be used, which are at least 12, preferably 18 inches, above the ground, the legs or supports of which are protected by approved oil or other barriers, and which are maintained in a manner satisfactory to an authorized inspector. These structures are illustrated in the accompanying plates 1 and 2.

Growing Beds Including Entire Nurseries or Portions Thereof

Heeling-in or growing areas should be enclosed within approved barriers. Construction details for such barriers are given in plates 3 and 4. The areas contained therein must, at the time of erection

of barrier, be known to be free of infestation or must be treated in approved manner under the supervision of an inspector.

No plants with soil, and no soil or other materials restricted by the regulations of the white-fringed beetle quarantine which have not been produced under approved sanitation conditions or which have not been given approved treatment, may subsequently be placed in such protected areas.

(s) P. N. Annand

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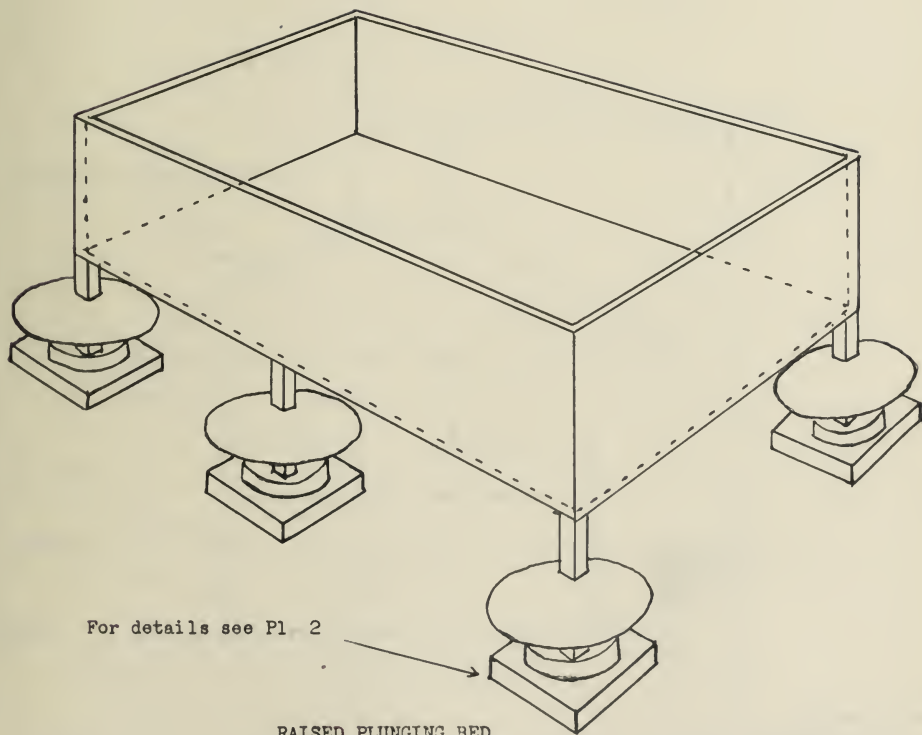
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Attachments: Plates 1-4



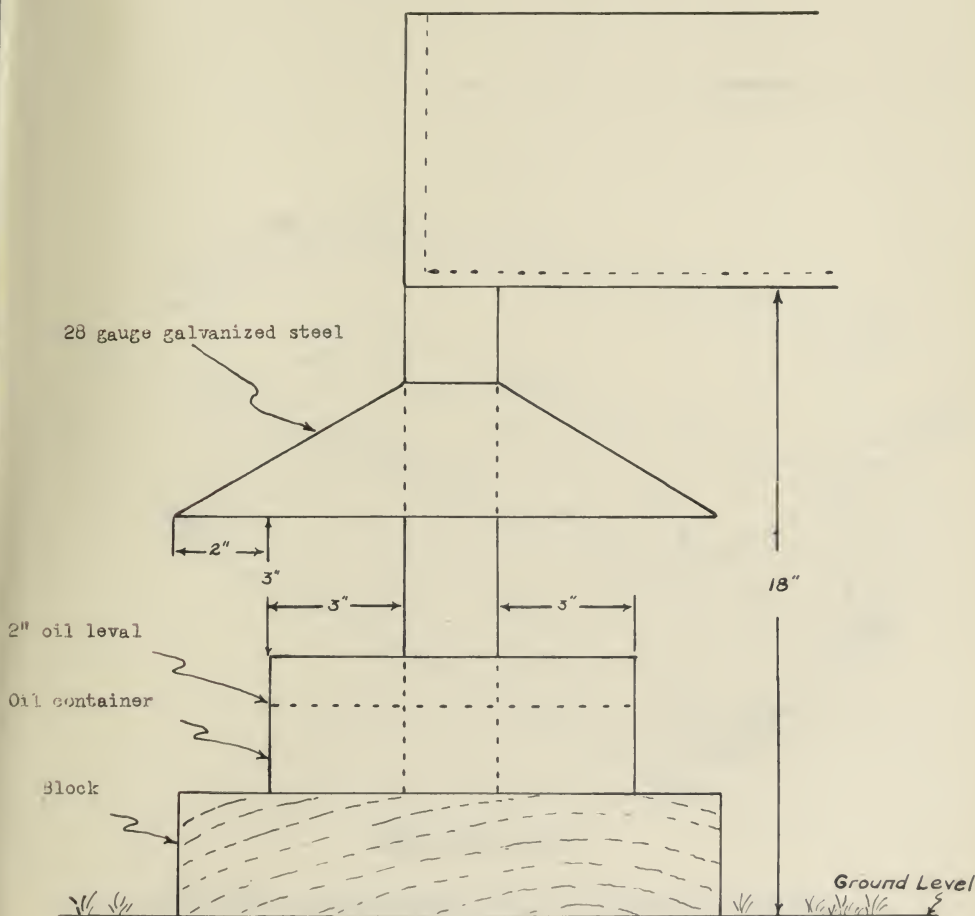
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A bed or bench elevated to a height of at least 12 inches above the ground preferably 18 inches. Protected during the season of adult beetle activity by an approved barrier. (Plate 2)

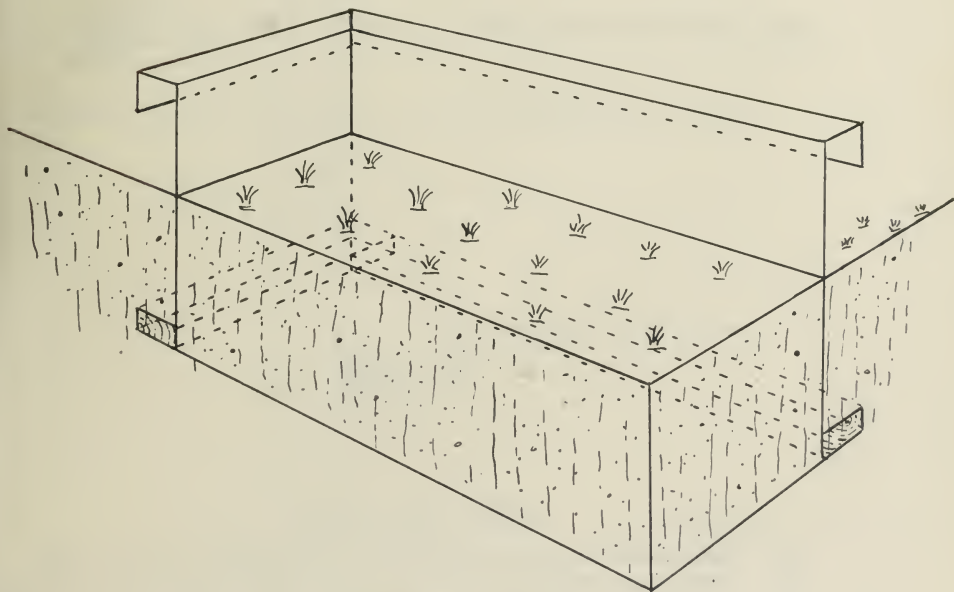
Corners or other places where the sheet metal of the barrier joins must be welded or otherwise united in manner approved by an inspector.



OIL BARRIER

This barrier is designed to be placed around the legs of raised plunging beds and arranged according to the diagram which shows maximum dimensions

Corners or other places where the sheet metal of the barrier joins must be welded or otherwise united in manner approved by an inspector



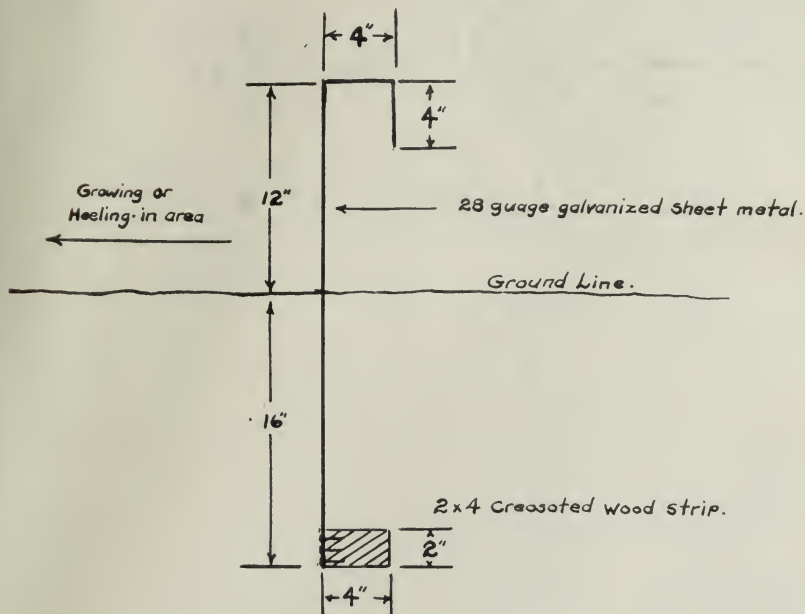
SHEET METAL BARRIER

Barrier of 28 gauge galvanized steel metal for protection of growing beds including entire nurseries or portions thereof For details of construction see plate 4.

Corners or other places where the sheet metal joins must be welded or otherwise united in manner approved by an inspector

PLATE 4

28 Gauge Galvanized Metal



APPROVED METAL BARRIER

This barrier is constructed of 28 gauge galvanized sheet metal. Its efficiency is in direct proportion to the smoothness of its surface. Care must be exercised to keep the surface above ground free from plants, dust, or debris. The sheet metal should be securely fastened to the 2 x 4 inch creosoted wooden strip to assure rigidity of the barrier.



Figure 1



Figure 2



Figure 3

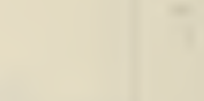


Figure 4

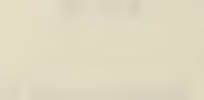


Figure 5

